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University of California
College of Agriculture
Agricultural Experiment Station
Berkeley, California

SEASONAL LABOR NEEDS FOR CALIFORNIA CROPS

RIVERSIDE COUNTY

Progress Report No. 33

Palo Verde Valley Coachella Valley Western Riverside County

Progress Report No. 33

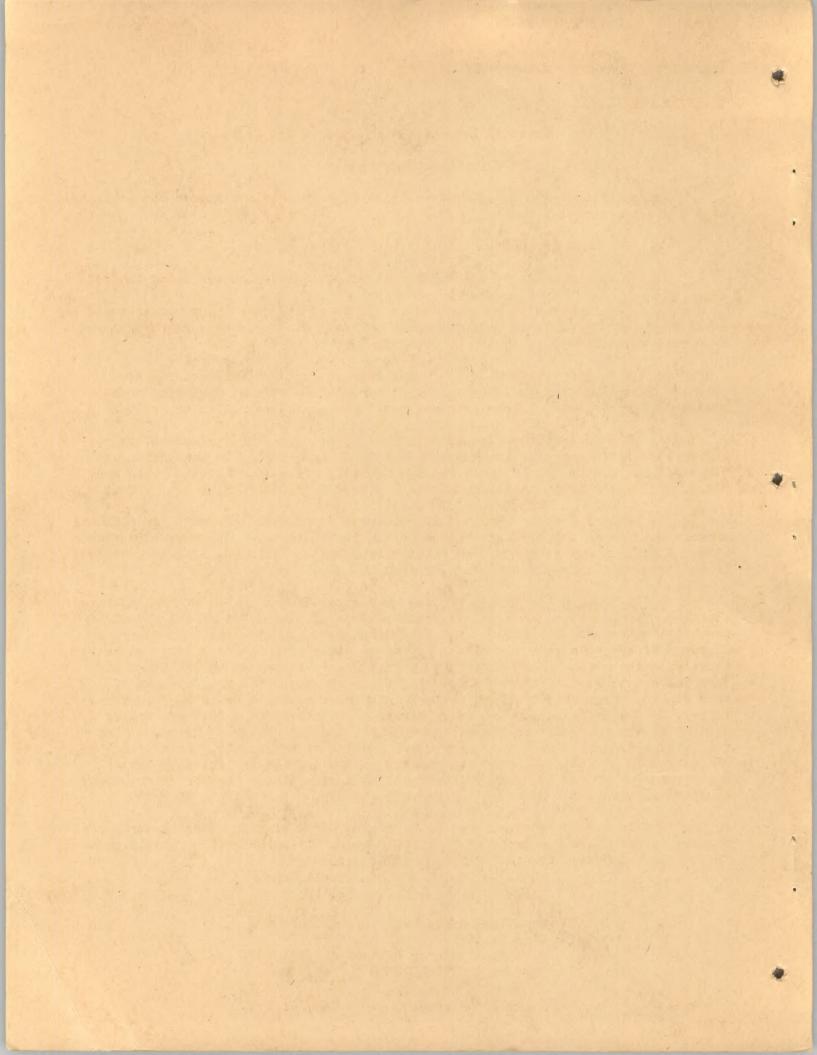
by

R. L. Adams

September, 1936
Preliminary -- Subject to Correction

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(Farm Labor Survey -- January-June, 1936)

Progress Report #33

Seasonal Labor Needs for California Crops

Riverside County

Scope of Presentation. -- The following considerations govern the presentation of this progress report:

- 1. The data are confined to the area indicated above.
- 2. The data are confined solely to crops, livestock needs being ignored.
- 3. The findings apply only to occasional or seasonal labor requirements as distinguished from labor contributed by farm operators and by workers employed on a year-round or regular basis of employment.
- 4. Attention is concentrated upon workers required for hand tasks -- planting, thinning, weeding, hoeing, and harvesting -- without including teamsters, tractor drivers, irrigators, and shed packers of vegetables or fruits.
- 5. The presentation includes the so-called migratory, transient, or roving workers which comprise an important source of help needed in connection with certain tasks and at "peak" times which seasonally arise in connection with many field, truck, and fruit crops commercially produced in California.
- 6. This report is confined to California's need for seasonal agricultural workers because of the more pressing problems liable to arise in connection therewith. A later study is planned which will deal with other kinds of labor involved in the production of California's many crops.

Brief Description of the Area.— Riverside County is one of the southern counties of California, and extends eastward from a point about 40 miles east of Los Angeles, across the state to the Nevada boundary, and the Colorado River, a distance of approximately 180 miles. It has a width of about 45 miles, and is bounded on the north by San Bernardine County and on the south by San Diego and Imperial counties. On the west, it joins Orange County. For the purposes of this report, the ccunty has been divided into three separate units — Palo Verde Valley, Coachella Valley, and Western Riverside County. The Palo Verde Valley lies at the extreme eastern end of the county, along the Colorado River. The Coachella Valley lies in the south-central portion of the county, north of Salton Sea. Western Riverside County includes the balance of the agricultural lands which lie west of the San Jacinto and Santa Rosa mountains. Further descriptions of these districts are given in the reports on each.

The county contains a total of 4,622,720 acres of which 345,501 acres are classed as available for crops by the 1935 Census. This is further classified as follows by the Census for the crop year 1934:

	Acreage
Crop land harvested	182,086
Crop failure	36,812
Crop land idle or fallow	102,233
Plowable pasture	24,370
Total land avail-	
able for crops	345,501

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Presentation .- The following considerations govern the presentasyncosa reempore pids to maki

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- The deta are confined solely to proper livestock acces being timerch.
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 - 4. Attention is concentrated upon workers required for hand tesks ---mant painting, thinning, bedding, because one spale of anihold animaint animaing sters, tructor drivers, irrigators, and shed packers of vegetables or fruits.
- by The prosentation includes the sometiled migratory, transfert by roudis noiseance of beboom wied to serves anaireast as weignes deidy exactor and the workers tasks and at "peck" times which secsonally brise in connection with many certain tasks and at Colifornia. field, truck, and fruit cross commercially produced in California. 23 6 10 1 19mm
- Into figure is confined to Chiffernia's need for sessonal deritoritaria workers because of the more precising problems libble to crise in somection therebeviousi notes to absid notio dalw lead life daidy bennels at thuis natul A .dity and the production of Clifornic a many proper

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Acrease

380,381 Orop land hervested 518,88 Grop land idle or fallow SER SUL Ployable pastage Total land symil-

Findings of Seasonal Labor Needs .-- Details and summaries of seasonal labor requirements of Riverside County, are presented separately for Palo Verde, Coachella, and Western Riverside counties, as table 3. The "size of task" are figures drawn from table 1 in terms of either acreage or output in tons, crates, boxes or whatever unit is commonly used. The "output per man-day" is an average figure for the entire acreage or output. If the work is of a nature that requires a crew, different members of which perform different tasks (such as pulling, sorting, bunching, and tying carrots, etc.), then the average shown is per man based on the entire crew. Length of day is 9 hours, unless otherwise stated. Wide variations in output occur between farm and farm, field and field, season and season, because of differences in soil types, climatic conditions, weeds, yields and other factors influencing the amount of work that a man can do in a given day. Moreover, the basis of output is a mature, experienced male worker, without reference to the use of women, children, and more or less inexperienced help that is sometimes used in connection with certain of the tasks requiring the use of seasonal workers. The column headed "available days" reflects (a) limitations set from the period within which the work must be performed because of the nature of the task, such as thinning, weeding, fruit picking, etc., and (b) the available days as determined by weather conditions, inclement weather reducing the number of days when a required task can be performed. The "required number of individuals" is given in terms of workers as noted above in connection with "output per man-day."

It is probable that the estimated number of workers required, as recorded in table 3, will often be too low, for the reason that "peaks" frequently occur, during which an unusually large proportion of the job is done in a very short period. This would naturally require a much greater number of workers than when the work is spread over a longer period, although the total amount of labor in man-days would not be changed materially.

TABLE 1.

Basis for Calculating Seasonal Labor Requirements -- Riverside County, other than Coachella and Palo Verde Valleys

Ullat	Coacherra and	Pato verde valleys
Crop	Acreage*	Production*
Field crops:		
Alfalfa	18,945	95,890 tons (90% baled = 86,300 tons)
Alfalfa seed	1,850	
Beans (dry)	1,271	15,700 sacks
Sugar beets	121	1,417 tons
Corn	280	95 tons grain
Corn (Indian) †	457	7,650 tons ensilage
Grain	49,003	
Hay (grain hay) oats or		
barley	13,000	13,610 tons
Milo Maize †	158	48 tons
Onions	225	66,750 sacks of 100 pounds
Potatoes	2,149	257,836 sacks of 100 pounds
Seed (Sugar beet)	410	650 tons
Seed (Onion)+	40	8,640 pounds
Truck crops:	Fig. 1	
Asparagus	97	4,767 crates
Carrots	55	

Findings of Seasonal Labor Meeds -- Details and suggested of consonal Labor requirements of Riveroids County, are precented separately for Palo Verde, Cogonilla, and Western Hivereide countles, as table 5. The "size of task" are figures drawn from table 1 in terms of either screege or output in tens, crates, s crew, different members of which perform different tacks (such as pulling, sorting, bunching, and tying carrots, sto.), then the average shown is pur man based on the entire erew. Langth of day is 8 hours, unless otherwise stated. . . . "Mose a plott bee bill' anel bie sind is wited topoc justic of agolfalter obliand sesson, because of differences in soil types, dimeted sendations, where, real ob and man a jent drow to income our anteneuting everet radio bus abledy given day. Moreover, the begin of output is a maters, experienced well worker, without routinger to the use of wesen, children, and more or look language rished ... nels that is separation used in connection with certain of the table requiring the use of seasonal workers. The column headed "available" days" rillected (a). I on the limitations set from the period within which the work duct be preferenced and more sea anotherimit of the nature of the task, such as thinging, wasding, fruit plakings etc., ander a rience (b) the trulloble days as determined by weather conditions, inclined that the trulloble days when a dequired took con be performed. The Proposition, a secure number of individuals, is given in terms of morkers as noted above in absorber. The proposition of the secure with "output per man-day,"

redirect on the of a residence of a contract of it is probable the declared number of workers required, is recorded: "requi in toble D, will often be too low, for the resson that "packs" frequently borns, in rest period. This would maturally require a much greater number of workers than when the work is spread over a length period, elthough the takel shount of labor in can-days would not be changed materially.

Besis for Calculating Seasonal Tabor Requirements -- Rivorside County, action : . :

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	if 7.1. a		Booms (dry)
	1,417 tons	121	Alfalfa sced Beans (dry) Sugar beets
. 1	1,417 tons 95 tons ganis 7,650 tons ensilege	088	Corn Corn (Indian) † Grain
	7,650 tong ensilege	468	f (animal) area
		48,002	1 Grein
		*	How (grain hay) water
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	8,640 pounds	0.0	Seed (Onlon)+
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Table 1 continued.		3.
Crop .	Acreage*	Production*
Truck crops: (cont'd)		
Lettuce+	50	
Melons, cantaloupes	197	442 tons
Casaba	40	150 tons
Japanese melo	one 53	350 tons
Persian	170	1,300 tons
watermelons	966 ‡	6,792 tons
Potatoes, sweet +	45	302 tons
Spinach	250	20 tons of
Squash †	384	2,580 tons
Tomatoes	1,192	6,299 tons
Vegetables (mixed)	321	
Strawberries	31	5,150 crates
Other berries	40	1,600 crates
Orchard crops:		
Almonds	1,053	41 tons 9
Apples †	180	160 tons
Apricots	4,422	3,148 tons (dry weight)21069
		5,329 tons (green) green
		(weight) tons
Avocados †	55	43 tons
Cherries	840	750 tons
Citrus, lemons	3,486	519,654 packed boxes
miscellaneous		
citrus	612	131,638 packed boxes
Navels	13,053	2,080,884 packed boxes
2	737	308,580 field boxes
Pomelo	717	(194,291) field boxes
Valencias	3,865	610,296 field boxes
Figs†	132	77 tons
Grapes, wine	4,9971	1,467 tons
	888	176 tons
Peaches, cling	1,109	2,674 tons
Pears +	1,038	1,035 tons
Pecans +	85 14	45 tons
Persimmons +	75	62 tons
Plums	81	246 tons
Lums	01	2,010 tons (dry weight) 5,435
Prunes	600	410 tons (green) green
Trunos	1	tons (green /green tons
Walnuts	5,198	2,274
III.	0,100	2,212
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^{*} Acreage and production figures are from office of A. E. Bottel, Agricultural Commissioner.

⁺ Use of seasonal labor inconsequential and hence ignored.

[#] About 50 per cent of watermelon acreage estimated protected by paper covers.

Spinach is a new crop in this district. Production estimated to be about 250 tons normally.

A Normal production of almonds is about 200 tons. 1935 crop was very light due to frost injury.

[|] Only about 1,500 acres of vineyard actually in good production. Balance is more or less neglected.

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	Table I continue
Acreuge" Froduction"	Carop
	Truck crops: (sont'd)
50	Lettucet
197 Sed tons	Melons, cantaloupes
40 150 tons	Casaba
	Jam ecensos mal
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anoj 506 tens	Potatoes, swest +
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286 Long	of Manuel
1,192 coms	Tomatoes
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anot (Jdyl m)	
43 tons	† sobspova
	Cherries
3,486 Signal Signature Sig	Citrus, Lemons
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5,865 10,296 Florid boxes	Valencies
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1,467 tons	Grapes, wins
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. Acresge and production figures are from office of A. E. Bettel, Autemitural Commissioner.

* Use of secsonal labor theconocommental and homes lenored.

* About 50 per cent of watermelon coreage estimeted protected by paper

Spineon is a new arop in this district. Production estimated to be about Mail way sow note 8891 .anot 800 tone at abnoule to noticuborg Lawrell F

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Operations Requiring Use of Seasonal Labor and Times of Need.-- Farm operations requiring the use of seasonal or occasional labor for the various crops raised in Riverside County, exclusive of the Coachella and Palo Verde valleys, are indicated in table 2. This tabulation does not include the employing of shed workers needed to wash, pack, and prepare various commodities for shipping and marketing.

TABLE 2

Operations Requiring Use of Seasonal Labor and Times of Needs by Crops -- Riverside County, exclusive of Coachella and Palo Verde Valleys

Crop	Operation	Time of need
Field crops: Alfalfa hay	Mowing (50 per cent by seasonal labor) Raking (50 per cent by seasonal labor) Shocking (80 per cent by seasonal labor) Hauling and baling (80 per cent by seasonal labor)	Aprilthree-fourths of acreage Maythree-fourths of acreage Juneall acreage Julyall acreage Augustall acreage Septthree-fourths of acreage Octthree-fourths of acreage April12 per cent of tonnage baled May15 per cent of tonnage baled June17 per cent of tonnage baled July17 per cent of tonnage baled Sept12 per cent of tonnage baled Oct10 per cent of tonnage baled
Alfalfa seed	Threshing	Sept15-30 50 per cent of crop Oct1-15 50 per cent of crop
Beans (mostly blackeye)	Hoeing	Julyall acreage
	Bunching efter cutter	Sept 50 per cent of acreage
	(by hand with fork)	Oct 50 per cent of ecreage
	Threshing (by stationary) (60 per cent by seasonal labor)	October-fall crop
Sugar beets	Thinning Hoeing Topping and loading	April May September
Grain, harvest- ing	Harvesting	June 50 per cent of crop July 50 per cent of crop

Obstations Remaining Use of Sessons Lobor and Times of Rest operations etions repairing the use of sessons or occasional inter for the unitary arises are related in Riverpide County, exclusive of the Countyland and Pale Verde valleys, are indicated in table 2. This tehulation does not include the apploying of shed Workers needed to week, and prepare various composities for chipping and varieties.

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Operations Requiring Use of Sessonal Labor and Times of Needs by Crops -- Riverside County, exclusive of Conchella and Palo Verda Talleys

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April - Apree Fourths of acrosse May-recould cordens June - all cordens July-wall acrosse Acgust - all acrosse Sept Aprec Fourthy of corruga	Howing (50 per dent by seasonal labor) Raking (50 per cent by seasonal labor) Shocking (60 per sent	Field crops: Alfelta hay
Ogt. ** three-fourths of adrease April-12 her cent of tonnese May all per cent of tonnese below June17 per cent of tonnese Bullet below	by seasonel labor) Hauling and baling (80 per dont by seasonal labor)	
July ** 17 nor cont of tonning baled Aug. ** 17 per cent of tonnege baled Sept. ** 12 per cent of tonnege baled baled baled baled baled baled		
Scot15-30 50 per cent of crop Dat1-15 50 per cent of dr.p	Threshing	Alfalfo scopl
agasana Ilan-yipt	Bosing	Benns (domily blackeye)
	Bunching efter outter	
Out 80 per ment of carcings	(by hand with fork)	
October-ell crop	Throughing (by stationers) (60 per cont by secuonal labor)	
Acril Help Sontombor	Thisming Howing Topping and leading	Bugger beets
gand 1 Jaca ton Officials and to Incoming Garages	and the same	Grein, hervert- ing

Table 2 continued.

Table 2 continued.	Operation	Time of need
Field crops (cont'd) Grain, harvesting		Augustall acreage
(cont'd) Grain hay	Mowing (75 per cent by seasonal labor)	May one-third of acreage June two-thirds of acreage
	Raking (75 per cent by seasonal labor)	Mayone-third of acreage Junetwo-thirds of acreage
	Bunching (75 per cent by seasonal labor)	Mayone-fourth of acreage; June-three-fourths of acreage
	Baling	June-15-30 [50 per cent of crop] July-1-15 [50 per cent of crop]
Onions	Hand cultivating (3 times)	March) 15 per cent of acreage April) each month
	Hand weeding (once)	Marchall acres
	Thinning	March20 per cent of acreage April80 per cent of acreage
	Picking up, grading, and sacking	Sept two-thirds of crop Oct one-third of crop
Potetoes	Cutting seed, spring crop (80 per cent of acreage)	Feb15-28 33 per cent of spring seed Mar-1-31 66 per cent of spring
	fall crop (20 per cent of acreage.)	seed July-20-30 33 per cent of fall seed Aug:-1-20 66 per cent of fall seed
	Picking up and sacking	June-20-30 5 per cent of spring crop July-1-31 90 per cent of spring crop August5 per cent of spring crop Nov50 per cent of fall crop Dec1-31 50 per cent of fall crop
	Grading on tables	Same time as picking up
Sugar beet seed	Hoeing	Oct15-31 50 per cent of acre- age Nov1-15 '50 per cent of acre- age
	Clearing away by hand (after mowers)	July

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Table continued				
Crop	Operation	Time of need		
Field crops (cont'd) Sugar beet seed (cont'd)	Threshing	July-50 per cent of crop Aug50 per cent of crop		
Vegetable crops: Asparagus	Cutting and crating			
Melons, cantaloupes	Thinning and heeing (ence) (50 per cent by seasonal labor)	Arrilall acreage		
Jap. melons	Replanting (50 per cent by seasonal labor)	Anril-all acreage		
	Hoeing (three times) (50 per cent by seasonal labor)	Maytwice Junecnce		
	Picking cantaloupes and Japanese melons	Augustone-half of crop Septone-half of crop		
	Picking Persians	September, October		
watermelons	Planting (75 per cent by seasonal labor)	March 1-3050 per cent of acreage April 1-2050 per cent of acreage		
	Capping	March per cent of acreage		
	Hoeing and thinning (75 per cent by seasonal labor)	April —all acres covered May—all acres not covered		
	Hoeing (75 per cent by seasonal labor)	May —all acres covered June —all acres not covered		
	Picking	July-10 ner cent of crop Aug50 per cent of crop Sept35 per cent of crop Oct5 per cent of crop		
	Lording and hauling (66 per cent by seasonal labor)	same as ricking		
Spinach	Hoeing (twice)	December - all acreage January - all acreage		
	Cut by hand with special forks	first (Dec. 15-31-20 per cent of cutting Crop Jen. 1-31-45 per cent of crop		

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Table 2 continued

Table 2 continued. Crop	Operation	Time of need
Vegetable crops (cont'd) Spinach	Cut by hand with special forks (cont'd)	second (Feb. 1-2814 per cent cutting (of crop (Mar. 1-31-14 per cent (of crop (Apr. 1-15-7 per cent (of crop
Tomatoes	Transplanting to field	May 1-15all acreage
	Replanting	May -all acreage
	Hoeing (twice)	June, July-all acres once
	Dusting (three times)	May, June, July -all acreage
	Picking	Aug15 per cent of crop Sept40 per cent of crop Oct30 per cent of crop Nov15 per cent of crop
Strawberries	Picking	March-10 per cent of crop April-35 per cent of crop May-30 per cent of crop June-25 per cent of crop
Other berries	Picking	May -5 per cent of crop June -78 per cent of crop July -16 per cent of crop
Orchard crops: Almonds	Knocking	July 20-30-10 per cent of crop Aug. 1-31-60 per cent of crop Sept. 1-31-30 per cent of crop
	Hulling by hand	July 20-30-10 per cent of crop Aug. 1-31-60 per cent of crop Sept. 1-31-30 per cent of crop
Apricots	Pruning (50 per cent by seasonal labor)	Nov., Dec., Jan., - one-third of acreage each month
	Spraying	
	Thinning (with poles)	April 15-30-25 per cent of acreage
	(Heavy in 1935 none in 1936)	May 1-1575 per cent of acre-
	Picking Washing trays and re-	June 20-30-10 per cent of crop July 1-31-90 per cent of crop
	pairing pairing	June 10-20-all
	Cutting for drying	July-all

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Table 2 continued.		
Crop	Operation	Time of need
Orchard crops (cont'd) Apricots (cont'd)	Spreading trays, handling boxes and scraping trays	July
Cherries	Picking Sorting and loose pack- ing	May 20-30-10 per cent of crop June 1-15-60 per cent of crop June 15-30-30 per cent of crop May 20-30-10 per cent of crop June 1-15-60 per cent of crop June 15-30-30 per cent of crop
Citrus, lemons	Picking *	Nov.—123,650 field boxes Dec.—162,140 field boxes Jan.—205,310 field boxes Feb.—150,336 field boxes Mar.—143,375 field boxes Apr.—191,835 field boxes May — 83,955 field boxes June—43,500 field boxes July—20,120 field boxes Aug.—11,310 field boxes Sept.—8,091 field boxes Oct.—30,015 field boxes
oranges (navels and Valencias) and miscellaneous citrus fruits	Picking †	Nov1.2 per cent of crop Dec4.2 per cent of crop Jan13.0 per cent of crop Feb16.5 per cent of crop Mar19.8 per cent of crop Apr18.1 per cent of crop May 6.5 per cent of crop June3.2 per cent of crop July5.4 per cent of crop Aug3.3 per cent of crop Sept4.5 per cent of crop Oct4.4 per cent of crop
grapefruit	Picking †	April8 per cent of crop May-17 per cent of crop June27 per cent of crop July-25 per cent of crop Aug14 per cent of crop Balance scattering and incon- sequential
Grapes	Pruning	Dec. 15-31-20 per cent of acreage Jan. 1-30-40 per cent of acreage Feb. 1-28-40 per cent of acreage

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Table 2 continued

Crop	Operation	Time of Need
Orchard crops (cont'd) Grapes (cont'd)	Picking	Aug. 15-30 5 per cent of crop Sept 30 per cent of crop Oct 50 per cent of crop Nov 15 per cent of crop
Olives	Picking	Nov. 1-30 50 per cent of crop Dec. 1-31 50 per cent of crop
Peaches, cling	Pruning (50 per cent by seasonal labor)	Jan.) 50 per cent of acreage Feb.) each month
	Thinning	May
	Picking	Aug. 15-31 — 45 per cent of crop Sept. 1-20 55 per cent of crop
freestone	Pruning (50 per cent by seasonal labor)	Nov. 15-30 one-sixth of acreage Dec. 1-31 one-third of acreage Jan. 1-31 one-third of acreage Feb. 1-15 one-sixth of acreage
	Thinning	May all acreage
	Picking	July 10 per cent of crop Aug 50 per cent of crop Sept 30 per cent of crop Oct 10 per cent of crop
	Sorting and packing	(same time as picking)
Plums	Picking	July 75 per cent of crop Aug 25 per cent of crop
Prunes	Picking up	Sept. 10-30 60 per cent of crop Oct. 1-15 40 per cent of crop
	Dipping and drying	(same time.as picking up)
Walnuts	Harvesting and hulling by hand	Sept 50 per cent of crop Oct 50 per cent of crop

^{*} Distribution of lemon picking by months based on lemon "pick" for 1935 of the Queen Colony Fruit Exchange, Corona, which is estimated to be about 80 per cent of the county production.

[†] Orange picking by months distributed according to percentage shipped monthly during 1935. Field boxes estimated on basis of 750 field boxes of 48 lbs. for every car of 462 boxes of 80 pounds.

[‡] Grapefruit picking by months is distributed according to percentage shipped each month in 1935. Field boxes estimated on basis of 750 field boxes for every car of 462 packed boxes.

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TABLE 3

Seasonal Labor Needs -- Riverside County, excluding Palo Verde and Coachella Valleys -- by Months and Tasks

				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	of workers*
January	Spinach: hoeing cutting with special	250 acres	1 acre	250	21	12
	forks by hand	112 tons	1,000 lbs in 6 hours	224 (of 6 hrs)	9	25 (for 9 days)
	Apricots: pruning	1,474 acres	0.2 acre	3,685+	21	176
	Citrus, lemons; picking oranges; picking	205,310 field boxes 778,700 field	23 boxes	8,927	20	447
		boxes	60 boxes	12,979	20	649
	Grapes: pruning	600 acres	0.75 acre	800	21	38
	Peaches, cling : pruning	555 acres	0.33 acre	833 +	21	40
	free ; pruning	346 acres	0.33 acre	519+	21	25
	Totals			28,217	21	1,344 man-months
February	Potatoes: cutting seed (12 sacks per acre)	6,876 sacks	20 sacks	344	11	31 (from 15th to 28th)
	Spinach; cutting (second cutting)	35 tons	1,000 pounds in 6 hours	70 (of 6 hrs)	3	25 (for 3 days)
	Citrus, lemons: picking oranges: picking	150,336 field boxes 988,350 field	22 boxes	6,834	22	311
		boxes	60 boxes	16,473	22	749
	Grapes: pruning	600 acres	0.75 acre	800 continued	23	35

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Table 3 con				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	of workers*
February	Peaches, cling : pruning	555 acres	0.33 acre	833 +	23	37
(cont'd)	free ; pruning	173 acres	0.33 acre	260 +	12	22 (from 1st
						to 15th)
	Totals			25,612	23	1,114 man-months
March	Onions: hand cultivation	225 acres	1.5 acre	225	25	9
	hand weeding	225 acres	1.0 acre	225	25	9
	thinning	45 acres	0.25 acre	180	25	8
	Potatoes; cutting seed (12 sacks per acre)	13,752 sacks	20 sacks	688	25	28
	Watermelons: planting with hoe	483 acres	5 acres	73†	25	3
	putting on paper caps	483 acres	3 acres	161	25	7
	Spinach: cutting (second cut- ting)	35 tons	1,000 pounds in 6 hours	70	3	25 (for 3 days)
	Strawberries: picking	(515 crates) (31 acres)	l½ crates	344 (of 4 hrs)	12	29†(from 15th to 31st)
	Citrus, lemons; picking	143,375 field boxes 1,086,020	31 boxes	4,625	23	201
	oranges; picking	field boxes	60 boxes	18,100	23	787
	Totals	Tield boxes	00 00,000	24,691	25	988 man-months
April	Alfalfa hay: mowing	14,209 acres	10 acres	710+	25	29
prii	raking	14,209 acres	20 acres	355+	25	15
	shocking	14,209 acres	2½ acres in 5	4,547	~~	
			hours	(of 5 hrs.)	25	182
	hauling and baling	10,356 tons	3 tons	2,762+	25	111

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Table 3 co				Required		Required number
Month	Crop and task	Size of task	Cutrut per man-day	man-davs	days	of workers*
April (cont'd)	Sugar beets: thinning	121 acres	0.5 acre	242	25	10
00110 0,	Onions; hand cultivating	225 acres	1.5 acre	225	25	9
	thinning	180 acres	0.25 acre	760	25	31
	Melons: cantaloupes and Japanes melons, thinning					
	and hoeing once	250 acres	0.75 acre	166+	25	7
	replanting	250 acres	4 hours per acre	.55†	25	3
	Watermelons; planting with hoe	483 acres	5 acres	74†	17	5 (from 1st to 20th)
	hoeing and thinning "covered" acreage	483 acres	1 acre	362†	25	15
	Spinach; cutting (second cutting)	18 tons	1,000 pounds in 6 hours	36 (of 6 hrs.)	2	18 (for 2 days)
	Strawberries; picking	1,800 crates 31 acres	l½ crates	1,200 (of 4 hrs.)	25	48: *
	Apricots: thinning (with poles)	1,105	0.5 acre	2,210	12	184 (from 15th to 30th)
	Citrus, lemons, picking	191,835 field	28 boxes	6 051	23	298
	oranges: picking	boxes 1,084,090	26 Doxes	6,851	20	290
	oranges; proxing	field boxes	60 boxes	18,068	23	786 9 1
	grapefruit, picking	24,686 field				
		boxes	90 boxes	275	23	12
	Totals			38,898	25	1,556 man-months
ay	Alfalfa hay; mowing	14,209 acres	10 acres	711 +	26	28
	raking	14,209 acres	20 acres	356†	26	14
	shocking	14,209 acres	2½ acres in 5 hours	4,547† (of 5 hrs.)	26	175

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(Table continued on next page)

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				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	of workers*
May (cont'd)	Sugar beets: hoeing	121 acres	1.0 acre	121	12	10 (for 12 days)
	Grain hay: mowing	4,400 acres	10 acres	330†	26	13
	raking	4,400 acres	20 acres	165+	26	7
	bunching	3,250 acres	20 acres	122+	26	5
	Melons, cantaloupes and Japan- ese melons: hoeing twice	500 acres	2 acres	125†	26	5
	watermelons; hoeing and thin- ning (all uncovered)	483 acres	3 acres	120†	26	5
	hoeing, (all covered acres)	483 acres	3 acres	1201	26	5
	Tomatoes: transplanting to field	1,192 acres	1 acre	1,192	12	100 (from 1st to 15th)
	dusting	1,192 acres	4 acres (in 6 hours)	298 (of 6 hrs.)	26	12
	replanting	1,192 acres	10 acres	119	12	10 (from 15th to 30th)
	Strawberries; picking	1,545 crates 31 acres	1½ crates	1,030 (of 4 hrs.)	26	40 †
	Apricots: thinning with poles 4	3,315 acres	0.5 acre	6,630	13	510 (from 1st to 15th)
	Cherries: picking	75 tons	200 pounds	750	10	75 (from 20th to 30th)
	sorting and loose packing	75 tons	1,000 pounds	150	10	15
	Citrus, lemons: picking	83,955 field				, to
		boxes	17 boxes	4,939	24	206

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Table 3 conti	nued.			Required	Available	Required number
1443-	Crop and task	Size of task	Output per man-day	man-days	days	of workers *
Month			output per man-day	morr day o		
May (cont'd)	Citrus, oranges: picking	389,350 field boxes	50 boxes	7,787	24	325
	grapefruit: picking	52,458 field	50 boxes	7,707	<i>~</i> ∗±	025
	graperrurt; preking	boxes	90 boxes	583	24	25
	Peaches: thinning 4	2,147 acres	0.25 acre	8,588	26	331
		-,		42,235	26	1,625 man-months
	Totals			42,600	20	1,025 man-montans
June	Alfalfa, mowing	18,945 acres	10 acres	947 †	26	37
June	raking	18,945 acres	20 acres	474 t	26	19
	shocking	18,945 acres	22 acres in 5 hours	6,064 +	26	234
				(of 5 hrs.)		
	hauling and baling	14,670 tons	3 tons	3,912+	26	151
	Grain: harvesting (with					200
	combine)	24,500 acres	6 acres	2,042 †	26	78
	Ourin har muinn	8,600 acres	10 acres	645 +	13	50 (for 13
	Grain hay; mowing	8,000 acres	10 acres	045 1	15	days)
	raking	8,600 acres	20 acres	323 t	15	22 (for 15
	IGNING	0,000 00105	20 20100			days)
	bunching	9,750 acres	20 acres	366+	20	19 (for 19
						days)
	baling	6,800 tons	4 tons	1,700	13	131 (from 15th
						to 30th)
	Potatoes: picking up and			3.48	20	35 / Comm 90+h
	sacking	10,300 sacks	70 sacks	147	10	15 (from 20th to 30th)
	mading (mostly on tobles)	10,300 sacks	100 sacks	103	10	11 (from 20th
	grading (mostly on tables)	10,300 Sacks	100 sacks	100	10	to 30th)
	Melons, cantaloupes and Japan-					
	ese: hoeing	250 acres	2 acres	63 +	26	3
	watermelons: hoeing (all					
	acres not covered)	483 acres	4 acres	90 †	26	4 14
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	Tomatoes: hoeing	1,192 acres	1.5 acre	795	26	31

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Table 3 continued.

Month Crop and task Size of task Output per man-day man-days days. June (cont'd) Tomatoes: dusting 1,192 acres 2.5 acres in 6 hours (of 6 hrs.)	e Required number of workers *
June (cont'd) Tomatoes: dusting 1,192 acres 2.5 acres in 6 477 26	
10000 10000 11000	19
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Youngberries, etc.: picking 40 acres 200-2 pt. baskets 26	1 11
Strawberries: picking 1,290 crates 1,	
31 acres 1½ crates 860 26	33 7
Apricots: picking 2,106 tons 2,000 pounds 2,106 10	211 (from 20th
	to 30th)
washing and repairing trays 98,400 trays 150 trays 656 10	66 (from 10th
	to 20th)
Cherries: picking 450 tons 200 pounds 4,500 15	300 (from 1st
	to 15th)
picking 225 tons 200 pounds 2,250 15	150 (from 15th to 30th)
Citrus, lemons picking 43,500 field	to soth)
Citrus, lemons: picking 43,500 field boxes 10 boxes 4,350 24	182
oranges; picking 191,680 field	102
boxes 50 boxes 3,834 24	160
grapefruit; picking 81,317 field	100
boxes 90 boxes 904 24	38
Totals 37,608 26	1,447 men-months
	14 171 ment monorous
July Alfalfa hay: mowing 18,945 acres 10 acres 947 + 26	37
raking 18,945 acres 20 acres 474 † 26	19
shocking 18,945 acres 2½ acres in 5 6,064 † 26	234
hours (of 5 hrs.)	
hauling and baling 14,670 tons 3 tons 3,912 t 26	151
Beans: hoeing 1,271 acres 1.0 acre 1,271 26	49
	70
Grain: harvesting (by combine) 24,500 acres 6.0 acres 2,042 26	78
Grain hay: baling 6,800 tons 4 tons 1,700 13	131 (from 1st
Grain hay: baling 6,800 tons 4 tons 1,700 13	to 15th)
Sugar beet seed; clearing swath	(0 13(11)
after mowers 410 acres 0.33 acre 1,230 21	60 (for 21 5
1,550	days)

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Table 3 continued.

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available	Required number of workers *
	Sugar beets: threshing	325 tons	0.75 ton	467	12	40 (from 15th to 31st)
	Melons, watermelons: picking	680 tons	10 tons in 5 hours	68 (of 5 hrs)	13	6 (from 15th to 31st)
	loading and hauling	680 tons	5 tons	90 t	13	7
	Potatoes: cutting seed for fall crop	1,728 sacks	20 sacks	87	10	9 (from 20th to 30th)
	picking up and sacking grading on tables	185,668 sacks 185,668 sacks	70 sacks 100 sacks	2,653 1,857	26 26	102 72
	Tomatoes: hoeing, once dusting	1,192 acres 1,192 acres	2.0 acre 1.0 in 6 hours	596 1,192 (of 6 hrs.)	26 26	23 46
	Youngberries, etc.; picking	40 acres	200-2 pt. baskets		26	11
	Almonds: knocking	20 tons	225 pounds	178	10	18 (from 20th to 30th)
	hulling by hand	20 tons	65 pounds	616	10	62 (from 20th to 30th)
	Apricots: picking cutting for drying (green	18,962 tons	2,000 pounds	18,962	26	730
	weight)	15,740 tons	600 pounds	52,467	26	2,018
	other dry yard labor	15,740 tons	11 hours per green ton ††	17,314	26	666
	Citrus, lemons: picking	20,120 field boxes	10 boxes	2,012	24	84
	oranges: picking	323,460 field boxes	50 boxes	6,469	24	270

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Tabl	e :	3	CC	n	ti	nu	ed	*

Cable 3 conti	inued.			Required	Available	Required number
10 44	Curr and took	Size of task	Output per man-day		days	of workers *
Month	Crop and task		Output per man-day	Andrew Good in		
July	Citrus, grapefruit; picking	77,145 field		250	0.4	36
(cont'd)		boxes	90 boxes	858	24	36
	Breeken (Supertone), might no	103 tons	1,500 pounds in 7	138		* 3
	Peaches, (freestone); picking	100 totts	hours	(of 7 hrs.)	6	23 (for 6 days)
	sorting and packing	103 tons	2,300 pounds	90	6	15 (for 6
	The state of the s					days)
	Plums: picking	185 tons	1,000 pounds	370	26	15
	Totals	100 00115	1,000 poundo	124,124	26	4,774 man-monts
	lotais			TOT INT		
August	Alfalfa hay; mowing	18,945 acres	10 acres	947+	25	38
	raking	18,945 acres	20 acres	474+	25	19
	shocking by hand	18,945 acres	2½ acres in 5	6,064		
			hours.	(of 5 hrs.)		243
	hauling and baling	14,670 tons	3 tons	3,912†	25	157
	Grain: baling straw		3 tons		25	
	Potatoes: cutting seed for					
	fall crop	3.432 sacks	20 sacks	172	18	10 (from 1st
	1011 0100					to 20th)
	picking up and sacking	10,300 sacks	70 sacks	147	6	25 (for 1st
						week)
		30 300	100 sacks	103	6	17 (for 1st
	grading	10,300 sacks	100 sacks	105		week)
	Sugar beet seed: threshing	325 tons	0.75 ton	467	24	20
	Melons, cantaloupes and			705	05	16
	Jap melons: picking	396 tons	1 ton	396 340	25	10
	watermelons; picking	3,396 tons	10 tons in 5		25	14
	loading and hauling	3,396 tons	5 tons	(of 5 hrs.) 454+	25	19
	Toading and hauting	3,350 cons	3 00113	10.1		
	Tomatoes: picking	945 tons	1 ton	945	25	. 38
						17.
	Almonds; knocking † †	120 tons	225 pounds	1,067	25	43 on next page)

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Table 3 continued.

Table 3 cont				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	of workers *
ugust cont'd)	Almonds; hulling by hand	120 tons	65 pounds	3,693	25	148
,	Citrus, lemons: picking	11,310 field boxes	10 boxes	1,131	24	48
	oranges: picking	197,670 field boxes	50 boxes	3,954	24	165
	grapefruit: picking	43,200 field boxes	90 boxes	480	24	20
	Grapes: picking	75 tons	1 ton	75	12	7 (from 15th to 30th)
	Peaches cling: picking	1,203 tons	1 ton	1,203	13	93 (from 15th to 31st)
	freestone picking	518 tons	1,500 pounds in 7 hours	691 (of 7 hrs.)	25	28
	sorting and packing	518 tons	2,300 pounds	451	25	18
	Plums; picking	62 tons	1,000 pounds	124	25	5
	Totals			27,290	25	1,092 man-month
September	Alfalfa hay; mowing	14,209 acres	10 acres	711+	26	28
	raking	14,209 acres	20 acres	356 +	26	14
	shocking	14,209 acres	2½ acres in 5	4,547	26	175
	hauling and baling	10,356 tons	hours 3 tons	(of 5 hrs.)	26	107
	Alfalfa seed: threshing	925 acres	2 acres	463	12	39 (from 15t to 30th)
	Beans; bunching after cutter	635 acres	1 acre in 3 hours	635 (of 3 hrs.)	26	25
	Sugar beets: topping and loading	1,417 tons	5 tons	284	26	11
	Onions; picking up, grading	44 500	40	1.113	26	43
	and sacking	44.500 sacks	40 Sacks	1.113	20	40

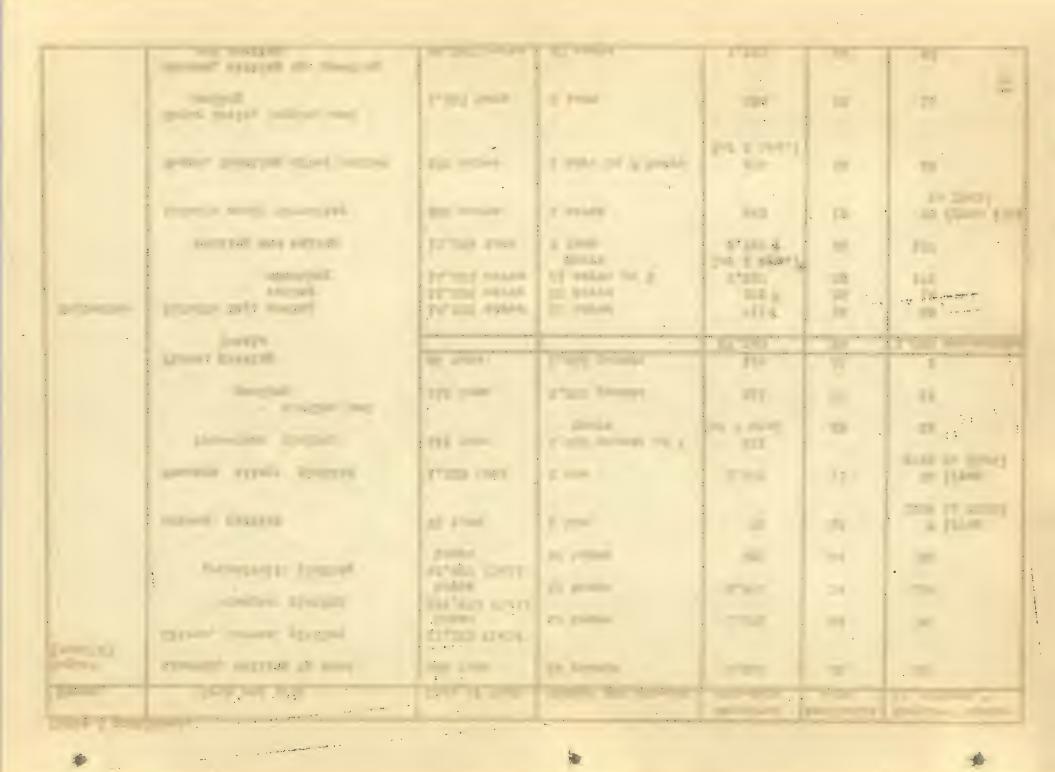


Table 3 con				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	of workers *
September (cont'd)	Melons, cantaloupes and Jap	396 tons	1 ton	396	26	16
,	Persians; picking	650 tons	4 tons	163	26	7
	watermelons; picking	2,377 tons	10 tons in 5 hours	238	26	9
	loading and hauling	2,377 tons	5 tons	(of 5 hrs.) 318†	26	13
	Tomatoes: picking	2,520 tons	1 ton	2,520	26	97
	Almonds, knocking + +	60 tons	225 pounds	533	26	21
	hulling by hand	60 tons	65 pounds	1,846	26	71
	Citrus, lemons: picking	8,091 field boxes 209,550 field	10 boxes	809	24	34 44
	oranges; picking	boxes	50 boxes	5,391	24	225
	Grapes; picking	440 tons	1 ton	440	26	17
	Peaches, cling; picking	1,470 tons	1 ton	1,470	20	74 (from 1st to 20th)
	freestone: picking	311 tons	1,500 pounds in 7 hours	415		
				(of 7 hrs.)	26	16
	sorting and packing	311 tons	2,300 pounds	271	26	11
	Prunes; picking up	3,261 tons	1,250 pounds	5,218	20	261 (from 10th to 30th)
	dipping and drying	3,261 tons	1½ tons green wt.	2,174	20	109 (from 10th to 30th)
	Walnuts: harvesting and hulling					
	by hand	1,137 tons	200 pounds	11,370	26	438
	Totals			44,443	26	1,710 man-months
					0.7	00
October	Alfalfa hay: mowing	14,209 acres	10 acres	711† 356†	25 25	29
	raking	14,209 acres	20 acres	1		n next nage

(Table continued on next page)

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able 3 cont				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	of workers *
October (cont'd)	Alfalfa hay: shocking	14,209 acres	2½ acres in 5 hours	(or 5 hrs.)		182
	hauling and baling	8,630 tons	3 tons	2,100†	25	84
	Alfalfa seed; threshing	925 acres	2 acres per man-day	463	12	39 (from lst to 15th)
	Beans; bunching with forks					
	after cutter	635 acres	l acre in 3 hours	635 (of 3 hrs.)	25	26
	threshing all crop	15,700 sacks	20 sacks	471 †	25	19
	Onions; picking up, grading and sacking	22,250 sacks	40 sacks	556	25	23
	Sugar beets for seed; hoeing	205 acres	0.33 acre	615	12	51 (from 15th to 31st)
	Melons, Persians; picking	650 tons	4 tons	163	25	7
	watermelons: picking	340 tons	10 tons in 5	34 (of 5 ars)	12	3 (for 12 days)
	loading and hauling	340 tons	5 tons	46 †	12	4 (for 12 days)
	Tomatoes: picking	1,890 tons	1 ton	1,890	25	76
	Citrus, lemons: picking	30,015 field boxes	13 boxes	2,309	24	97
	oranges: picking	263,560 field boxes	50 boxes	5,271	24	220

1 ton

1,500 pounds in 7

hours

2,300 pounds

734 tons

104 tons

104 tons

Grapes: picking

Peaches, freestone: picking

sorting and packing

(Table continued on next page)

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11 (from 1st to 15th)

7 (from No lst to 15th)

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Table 3 continued.

able 3 cont	.inded.			Required	Available	Required number
Month "	Crop and task	Size of task	Output per man-day	man-days	days	of workers *
October cont'd)	Prunes: picking up (green weight)	2,174 tons	1,250 pounds	3,479	15	232 (from 1st to 15th)
	dipping and drying	2,174 tons	1½ tons green weight	1,450	15	97 (from 1st to 15th)
	Walnuts; harvesting and hull- ing by hand	1,137 tons	200 pounds	11,370	25 25	455 1.498 man-months
	Totals			37,430	25	1,498 man-months
November	Potatoes: picking up and sacking grading	25,784 sacks 25,784 sacks	70 sacks 100 sacks	369 258	25 25	15 11
	Sugar beets for seed: hoeing	205 acres	0.33 acre	615	12	51 (from 1st to 15th)
	Tomatoes: picking	945 tons	1 ton	945	12	79 (from 1st to 15th)
	Apricots: pruning	1,474 acres	0.2 acre	3,685+	25	148
	Citrus, lemons: picking	123,650 field boxes	13 boxes	9,512	23	414
	oranges: picking	71,880 field boxes	50 boxes	1,438	23	63 44
	Grapes; picking	220 tons	1 ton	220	12	19 (from 1st to 15th)
	Olives: picking	88 tons	300 pounds	·587	25	23
	Peaches, freestone. pruning	173 acres	0.33 acre	260+	12	22 (from 15th to 30th)
	Totals			17,889	25	716 man-months
December	Potatoes: picking up and sacking	25.784 sacks	70 sacks	369	24	16
	grading	25,784 sacks	100 sacks	258	24	11

(Table continued on next page)



Table 3 continued.

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers
December (cont'd)	Spinach: hoeing first cutting	250 acres 50 tons	0.6 acre 1,000 pounds in 6 hours	416 100 (of o hrs.)	24 4	18 25 (for 4 days)
	Apricots; pruning	1,474 acres	0.2 acre	3,685+	24	154
	Citrus, lemons: picking oranges: picking	162,140 field boxes 251,580 field boxes	16 boxes 60 boxes	10,134 4,193	24 24	423 175
	Grapes; pruning	300 acres	0.75 acre	400	12	34 (from 15th to 31st)
	Olives; picking	88 tons	300 pounds	587	. 24	25
	Peaches, freestone: pruning	346 acres	0.33 acre	519+	24	22
	Totals			20,661	24	861 man-months

Monthly basis unless otherwise noted.

t Estimated portion of work done by seasonal laborers.

* Strawberry picking may require 60 to 90 pickers continuously during March, April, and May.

Thinning varies greatly, and may be omitted entirely when set of fruit is light. Figures are for normal set of fruit.

A Peak orange shipments in Riverside County are about 28,500 packed boxes (equalling about 48,500 field boxes) per day. This would require about 810 pickers.

|| Youngberry picking may require 4 pickers per acre at the peak of production.

** Cherry picking during peak on heavy crop may require more workers than indicated for a short period.

++ Data on apricot drying from University of California Agr. Exp. Sta. Bul. 388.

##Figures based on a normal production of about 200 tons of almonds -- 1935 crop was very light.

66 Citrus pickers during the lightest picking season are more or less "steady" employees although they may work on a day or piece work basis.

AAData on prune drying from University of California Agr. Exp. Sta. Bul. 388.

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TABLE 4

Summary of Seasonal Labor Needs by Months
Western Riverside County, excluding Coachella and Palo Verde Valleys

Month	Required man-days of seasonal labor	Available work days	Required man-months of seasonal labor
Jenuary	28,217	21	1,344
February	25,612	23	1,114
March	24,691	25	988
April	38,898	25	1,556
May	42,235	26	1,625
June	37,608	26	1,447
July	124,124	26	4,774
August	27,290	25	1,092
September	44,443	26	1,710
October	37,430	25	1,498
November	17,889	25	716
December	20,661	24	861
Total	468,948		18,719

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Riverside County -- Coachella Valley

Brief Description of the Area .-- Coachella Valley is located in the southcentral part of Riverside County in southern California. It extends in a southeasterly direction about 60 miles from San Gorgonio Pass to the Salton Sea, and is hemmed in by mountains on the north, east and west and the Salton Sea on the south. Of the total area in the valley, only a small portion is farmed. This consists of land reclaimed from the desert, and irrigated by water pumped from deep wells. It covers a district about 20 miles in length, and 3 or 4 miles in width, contiguous to the towns of Indio, Coachella, Thermal, and Mecca, located in the southern end of the valley, a short distance north of Salton Sea. In some places the farms are scattered, and separated by areas of unreclaimed desert. The topography is quite flat, with a gentle slope to the south and east. The lands are mostly below sea level, and range in elevation from a few feet above to about 200 feet below. Rainfall is light and so uncertain that no dependence is placed upon it, irrigation being relied upon entirely for all crops. The summers are very hot and dry, and the winters mild with little frost. A considerable part of the area is used for the more tender truck crops such as string beans, tomatoes, squash, etc., which, owing to the mild winter climate can be matured here when few other districts can compete in the market.

Figures from the Agricultural Commissioner at Riverside indicate the following acreages for the 1935 season:

	Acreage
Field crops	3,135
Vegetable crops	3,297
Orchard and vineyard	
bearing	4,724
Orchard and vineyard	
nonbearing	3,087
Total	14,243

A variety of soils is represented, belonging to four different series. The predominating soil textures are sand, fine sand, and loam, although some large areas of clays occur, especially in the lower or southern end of the valley. Crops are grown principally on the lighter types. The soils are generally 6 feet or more in depth.

Crops, Acreages, and Production. The basis used in calculating occasional or seasonal need for labor in addition to that furnished by farm operators and regularly employed workers appears as table 1.

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TABLE 1

Basis * for Calculating Seasonal Labor Requirements -- Coachella Valley

Crops	Acreage	Production
Field crops:		
Cotton	1,650	1,700 bales = 2,380,000 pounds
		seed cotton
		1,215 tons seed
Hay, alfalfa, (90 per cent	900	4,950
baled)		
Onions†	440 †	108,000 sacks, average 50 pounds
Potatoes (sweet)	145	9,660 sacks, average 100 pounds
Wanadah la mana		
Vegetable crops: Beans (green)	207	G 07 / +)
beans (green)	spring 207 fall 650	Spring 217 tons) Fall 684 tons) 901 tons
Carrots	250	50,700 crates
Cantaloupes ‡	308 =	616 tons
Corn (green)	507	73,515 lugs of 3 dozen ears
Lettuce (none in 1936)	300	17,280 crates
Peas	400	200 tons
Tomatoes	409	2.903 tons
Vegetables (other)	266	can draw
Fruit crops:		
Citrus, grapefruit; bearing	1,767	341 cars = 157,542 packed
		boxes = 262,570 field
, , , ,		boxes
nonbearing	1	
tangerine: bearing	94	15 cars = 6,930 nacked
nonbearing	57	boxes = 554,400 pounds
Valencias; nonbearing	96	-
Dates: bearing	1,215	6,407,426 pounds
nonbearing	1,660	man promised
Figs: bearing	15	11 tons
nonbearing	10	
Grapes Thompson; bearing	1,179	1,130 tons
nonbearing	589	
Melaga: bearing	454	589 tons

^{*} Acreage and production figures for 1935 furnished by office of A. E. Bottel, Agricultural Commissioner, Riverside County.

[†] Onion acreage ranges from 400 to 800 acres in different years.

[#] Cantaloupe acreage is usually 150 acres or less.

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Operations Requiring Use of Seasonal Labor and Times of Need. -- Farm operations requiring the use of seasonal or occasional labor for the various crops raised in the Coachella Valley of Riverside County, are indicated in table 2. This tabulation does not include the employing of shed workers needed to wash, pack, and prepare various commodities for shipping and marketing.

TABLE 2

Operations Requiring Use of Seasonal Labor and Times of Needs by Crops
Coachella Valley

Crop	Operation	Time of need		
Field crops: Cotton	Chopning Picking	May Aug15 per cent of crop Sept20 per cent of crop Oct20 per cent of crop Nov20 per cent of crop Dec15 per cent of crop Jan5 per cent of crop Feb5 per cent of crop		
Hay, alfalfa	Baling (90 per cent of tonnage) (66 per cent by seasonal labor)	Mar15-31 4 per cent of ton- nage baled Apr. to Nov., inclusive12 per cent of tonnage each month		
Onions, (Bermuda)	Planting in field	Oct. 25-31-5 per cent of acreage Nov. 1-30-75 per cent of acreage Dec. 1-15-20 per cent of acreage		
	Weeding (twice)	February -all acreage March -all acreage		
Potatoes (sweet).	Use of seasonal labor incons	sequential and hence ignored.		
Vegetable crops: Beans, green (spring crop)	Hoeing Staking Picking	March—all acreage: Merch—all acreage April 20-30-25 per cent of crop May 1-3175 per cent of crop		
Beans, green (fall crcp)	Staking Picking	October-all acreage Nov. 1-3050 per cent of crop Dec. 1-1550 per cent of crop		
Carrots	Wheel hoeing (once) Weeding (once)	October -all acreage Oct. 15-31all acreage		
	Pulling, tying in bunches and putting in field crates	Feb28 per cent of crop Mar42 per cent of crop Apr24 per cent of crop (balance scattered and incon- sequential)		

(Table continued on next page)

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Table 2 continued,		27.
Crop	Operation	Time of need
Vegetable crops (cont'd) Cantaloupes	Picking	June -60 per cent of crop July -40 per cent of crop
Corn (green) (Seasonal labor only	Thinning and hoeing	Merch
cn larger acreages, about 50 per cent of acreage)	Suckering (twice)	March all acreage Anril all acreage
Ŭ,	Dusting	April
	Picking (20 per cent by seasonal labor)	May
Lettuce District ap labor inconsequen	parently discentinuing protial and hence ignored.	eduction use of seasonal
Peas	Picking	Nov25 per cent of crop Dec35 per cent of crop Jan30 per cent of crop Feb10 per cent of crop March
Tema toes	Setting sloping stakes and attaching wire paper for weather protection	December all acreage
	Hoeing (twice)	January — all acreage March — all acreage
	Remove paper, pull up stakes and wire and set in vertical posi- tion	Februaryall acreage
	Pruning (3 times)	February, Marchcn 50 per cent of acreage each month
	Tying (3 or 4 times)	March, April -two times in all acreage
	Picking (50 per cent by seasonal labor)	April6 per cent of crop May45 per cent of crop June47 per cent of crop (balance scattered and inconsequential)
Orchard c rops? Grapefruit	Pruning (50 per cent cf acreage)	Dec., Jan., Feb., Mar 25 per cent each month
	Picking	Nov20 per cent of crop Dec20 per cent of crop Jan20 per cent of crop Feb20 per cent of crop Mar20 per cent of crop

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Table 2 continued.

Crop	Operation	Time of need
Vegetable crops (cont'd) Tangerines	Picking(50 per cent by seasonal labor)	Nov. 20-3025 per cent of crop Dec. 1-3175 per cent of crop
Dates	Pollinating (50 per cent by seasonal labor)	Feb. 15-28-25 per cent of job Mar. 1-31-50 per cent of job Apr. 1-15-25 per cent of job
	Picking	Sept. 15-31-20 per cent of crop Oct40 per cent of crop Nov30 per cent of crop Dec. 1-15-10 per cent of crop
Figs Use of seasons	l labor inconsequential a	nd hence ignored.
Grapes	Pruning	Dec., Jan., Feb one-third of acreage each month
	Picking	Juneall Thompson Seedless Julyall Malagas - 8 days

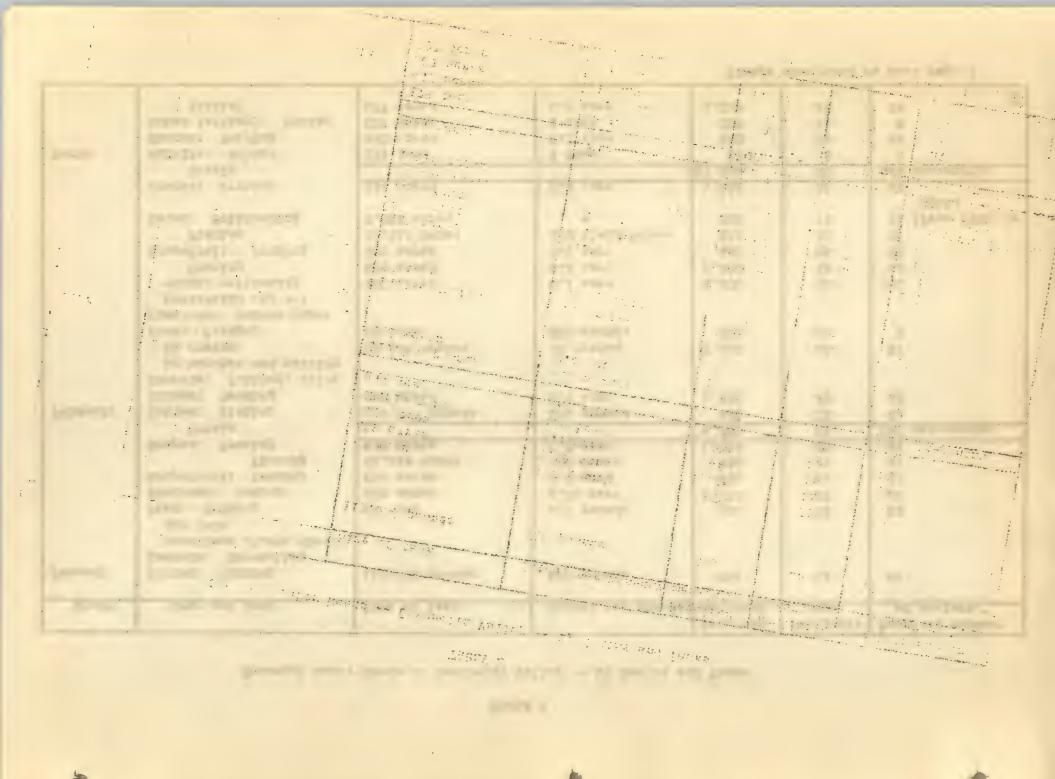
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TABLE 3

Seasonal Labor Needs -- Coachella Valley -- by Months and Tasks

				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	of workers *
January	Cotton: Picking Carrots: Harvesting sometimes starts about	119,000 pounds	200 pounds	595	25	24
	the 15th	CO 4	000	600	05	0.4
	Peas: Picking	60 tons	200 pounds		25 25	24
	Tomatoes: Hoeing	409 acres	0.25 acre	1,636		66
	Grapefruit: Pruning	220 acres	0.5 acre	440	25	18
	Picking	52,514 boxes	100 boxes	526	25	21
	Grapes: Pruning	544 acres	0.5 acre	1,088	25	44
	Totals			4,885	25	196 man-months
February	Cotton: Picking	119,000 pounds	200 pounds	595	25	24
	Onions: Weeding	440 acres	0.3 acre	1,320	25	53
	Carrots: Pulling, tying in bunches and putting					
	in crates	14,196 crates	10 crates	1,420	25	57
	Peas: Picking	20 tons	200 pounds	200	25	8
	Tomatoes: Remove paper protection and set					
	stakes vertically	400 acres	0.1 acre	4,000	25	160
	Pruning	600 acres	0.5 acre	1,200	25	48
	Grapefruit: Pruning	220 acres	0.5 acre	440	25	18
	Picking	52,514 boxes	100 field boxes	526	25	21
	Dates: Pollinating	1,215 acres	†	303	13	24 (from 15th to 28th)
	Grapes: Pruning	544 acres	0.5 acre	1,088	25	44
	Totals			11,092	25	444 man-months
March	Alfalfa: Baling	178 tons	5 tons	24 ‡	8	3
	Onions: Weeding	440 acres	0.5 acre	880	26	34
	Beans (string): Hoeing	207 acres	1 acre	207	26	8
	Staking	207 acres	0.2 acre	1,035	26	30
				3,020		29

(Table continued on next page.)



Ta	ble	cont	tinu	ed

				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	of workers *
March	Carrots: Pulling, tying					
(cont'd)	in bunches and putting					
	in crates	21,298 crates	10 crates	2,130	26	82
	Corn: Thinning and hoeing		l acre	250 +	26	10
	Suckering	507 acres	1 acre	250	26	10
	Tomatoes: Pruning	600 acres	0.5 acre	1,200	26	45
	Tying (two times)	800 acres	10 man-days per acre	8,000	26	308
	Grapefruit: Picking	52,514 boxes	100 field boxes	526	26	21
	Pruning	220 acres	0.5 acre	440	26	17
	Dates: Pollinating	1,215 acres	+	608	26	25
	Totals			15,550	26	598 man-months
April	Alfalfa (hay): Baling	535 tons	5 tons	72 🕈	26	3
	Onions: Harvesting	21,600 sacks				
		of 50 pounds	25 sacks	864	6	144 (from 25th
						31st)
	Beans (string): Picking					
	25 per cent of spring					
	crop	54 tons	200 pounds	540	6	90 (from 25th
						30th)
	Carrots: Pulling, tying					
	in bunches, and putting					
	in crates	12,168 crates	10 crates	1,217	26	47
	Corn: Suckering (all			-,		
	acreage)	507 acres	l acre	250 🕇	26	10
	Dusting (all acreage)			200 1		1.0
	by hand	507 acres	1 acre	250 ‡	26	10
	Tomatoes: Tying	800 acres	20 man-daysper acre		26	616
	Picking	174 tons	600 pounds	290 ‡	26	12
	Dates: Pollinating	1,215 acres	L L	303	13	24 (from 1st t
		2,220 00100	T	303	10	15th)
	Totals			19,786	26	
May	Cotton: Chopping	1,650 acres	2.0 acres	825	26	761 man-months
3	Alfalfa (hay): Baling	535 tons	5 tons	72 †	26	3
	Cantaloupes (sometimes a	555 60115	Juns	124	20	3
	few picked after the					
	15th)					
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Table contin				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	of workers*
May (cont'd)	Onions: Harvesting	86,400 sacks			0.0	277
		of 50 pounds	25 sacks	3,456	26	133
	Beans (string): Picking	163 tons	200 pounds	1,630	26	63
	Corn (green): Picking	73,515 lugs	75 lugs	196	26	8
	Tomatoes: Picking	1,306 tons	600 pounds	2,180 ‡	26	84
	Totals			8,359	26	322 man-months
June	Alfalfa (hay): Baling	535 tons	5 tons	72 *	26	3
	Cantaloupes: Picking	370 tons	l ton	370	26	15
	Tomatoes: Picking	1,364 tons	600 pounds	2,274	26	88
	Grapes: Picking and					
	packing (all Thompson)	1,130 tons	1,000 pounds	2,261	26	87
	Totals			4,977	26	192 man-months
July	Alfalfa (hay): Baling	535 tons	5 tons	72†	26	3
	Cantaloupes: Picking	246 tons	1 ton	246	10	25 (from 1st
						10th)
	Grapes: Picking (Malagas)	589 tons	1,000 pounds	1,178	8	183
	Totals			1,496	26	58 man-months
August	Cotton: Picking	357,000 pounds	250 pounds	1,428	18	80 (from 7th
						to 31st)
	Alfalfa (hay): Baling	535 tons	5 tons	72‡	26	3
	Totals			1,500	26	58 man-months
September	Cotton: Picking	476,000 pounds	250 pounds	1,904	26	74
neb (emper	Alfalfa (hay): Baling	535 tons	5 tons	727	26	3
	Dates: Picking	1,922,220 pounds	330 pounds	5,825	13	448 (from 15th
	Dates. Horring	2,200,000 peaner	Joseph Market			to 31st)
	Totals			7,801	26	300 man-months
October	Cotton: Picking	476,000 pounds	250 pounds	1,904	26	74
october	Alfalfa (hay): Baling	535 tons	5 tons	72‡	26	3
	Onions: Planting	22 acres	0.14 acre	154	6	26 from 25th
	onions. Flanting	LE doice	0022 0010			to 31st)
	Beans (green): Staking					
	(fall crop)	650 acres	0.2 acre	3,250	26	125
	Carrots: Wheel hoeing	250 acres	0.25 acre	1,000	13	77 (from 1st
	Carrots: wheel hoeling	LOU ACTES	0.20 4016	1,000		15th)
	W	250 acres	l acre	250	13	20 (from 15t)
	Weeding:	ESO SCIES	1 4016	200	1	to 31st)

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Table continued

				Required	Available	Required number
Month	Crop and task	Size of task	Output per man-day	man-days	days	or workers*
October	Dates: Picking	3,844,440 pounds	330 pounds	11,650	26	448
(cont'd)	Totals			18,280	26	703 man-months
November	Cotton: Picking	476,000 pounds	225 pounds	2,116	26	82
	Alfalfa (hay): Baling	535 tons	5 tons	72=	26	3
	Onions: Planting in field	330 acres	0.14 acre	2,310	26	89
	Beans (string): Picking	342 tons	250 pounds	2,736	26	106
	Peas: Picking	50 tons	200 pounds	500	26	20
	Grapefruit: Picking	52,514 boxes	100 field boxes	526	26	21
	Tangerines: Picking	138,600 pounds	1,500 pounds	47#	10	5 (from 20th
						to 30th)
	Dates: Picking	1,922,229 pounds	330 pounds	5,825	26	224
	Totals			14,132	26	544 man-months
December	Cotton: Picking	357,000 pounds	200 pounds	1.785	25	72
2000111001	Onions: Planting	88 acres	0.14 acre	616	13	48 (from 1st to
	011201101			-		15th)
	Beans: Picking	342 tons	250 pounds	2,736	13	211 (from 1st to
	Declis. Floring	O-L COILS	200 poulids	2,700	10	15th)
	Peas: Picking	70 tons	200 pounds	700	25	28 6
		70 cons	200 pounds	700	20	20 4
	Tomatoes: Set sloping					
	stakes and paper	100		0.015		
	weather protection	409 acres	0.2 acre	2,045	13	158
	Grapefruit: Picking	52,514 boxes	100 field boxes	526	25	21
	Pruning	220 acres	0.5 acre	440	25	18
	Tangerines: Picking	415,800 pounds	1,500 pounds	139 †	25	6
	Dates: Picking	640,743 pounds	330 pounds	1,942	13	150 (from 1st to
						15th)
	Grapes: Pruning	544 acres	0.5 acre	1,088	25	44
	Totals			12,017	25	481 man-months

^{*}On a monthly basis unless noted.

[†] Date pollinating requires about 2 man-days per acre for the season February 15 to April 15, of which about 50 per cent is done by seasonal workers.

[‡] Estimated portion of job done by seasonal workers.

During peak of pea harvest, at least one picker per acre is needed.

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TABLE 4
Summary of Seasonal Labor Needs by Months
Coachella Valley

Month	Required man-days of seasonal labor	Available work days	Required man-months of seasonal labor
January	4,885	25	196
February	11,092	25	444
March	15,550	26	598
April	19,786	26	761
May	8,359	26	322
June	4,977	26	192
July	1,496	26	58
August	1,500	26	58
September	7,801	26	300
October	18,280	26	703
November	14,132	26	544
December	12,017	25	481
Tot a.l	119,875	00p case	4,657

It will be noticed from table 4, that the need for seasonal labor is small in Coachella Valley during the hot summer months from June to September. But after about September 15, however, the demand increases rapidly due largely to date harvest, and work on fall vegetable plantings and cotton picking. This continues to about the end of the year. January is somewhat slack, as fall harvests are mostly finished, but the need for labor increases again rapidly as work on spring crops develop, reaching a peak along in April or May with the harvest of onions, string beans, carrots, and work on tomatoes.

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Riverside County -- Palo Verde Valley

Brief Description of the Area. -- Palo Verde Valley consists of 88,693 acres of partly reclaimed bottom lands along the west side of the Colorado River and is situated in the extreme eastern corner of the county. All the cropped land requires irrigation, in that the average annual rainfall is only about 4 inches. Of the total acreage in the valley about 25,000 was cropped in 1935, the crops consisting principally of cotton, alfalfa (hay and seed), wheat, and grain sorghums. A little barley was grown, a considerable acreage of sudan grass for seed, and about 200 acres are in pecans of several years' growth. The agricultural areas are contiguous to the towns of Blythe, Neighbors, and Ripley.

The soils of the valley are varied, and range from sand to clay. The different textures are scattered in relatively small patches generally over the whole district.

Crops, Acreages, and Production. -- The basis used in calculating occasional or seasonal need for labor in addition to that furnished by farm operators and regularly employed workers appears as table 1.

TABLE 1

Basis for Calculating Seasonal Labor Requirements -- Palo Verde Valley

Crops	Acreage *	Production *
Field crops:		
Alfalfa for hay only	5,500	22,000 tons hay
hay and seed	3,300	4,400 tons hay
ing and sook	,,,,,,	355.57 tons seed
Cotton, 1935	8,095	5,823 bales
000001, 1000	0,000	2,599 tons seed
Flax	200	4,000 bushels
Grain, wheat and barley	2,389	1,622 tons
	2,971	2,317.38 tons
Sorghums	1,653	495 tons seed
Sudan grass for seed	1,000	430 tolla scod
Vegetable crops:		
Melons, Honeydew	30	3,360 crates
Lettuce, bearing	80	3,600 crates, Dec., 1939
	224	for 1936 harvest
nonbearing	664	Tor 1930 harvest
Onehand and		
Orchard crops:	360	30 000 nounda
Pecans, bearing	160	30,000 pounds
nonbearing	40	40 100

^{*} Acreage and production from office of A. E. Bottel, Agricultural Commissioner, Riverside County.

Operations Requiring Use of Seasonal Labor and Times of Need. -- Farm operations requiring the use of seasonal or occasional labor for the various crops raised in the Palo Verde Valley are indicated in table 2. This tabulation does not include the employing of shed workers needed to wash, pack, and prepare various commodities for shipping and marketing.

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Operations Requiring Use of Seasonal Labor and Times of Needs by Crops -- Palo Verde Valley

Crops	Operation	Time of need
Field crops: Alfalfa (hay)	Baling (80 per cent of crop) (60 per cent by seasonal labor)	Mar10 per cent of ton- nage baled Apr20 per cent of ton- nage baled May 20 per cent of ton- nage baled June20 per cent of ton- nage baled July10 per cent of ton- nage baled Aug10 per cent of ton- nage baled Sept10 per cent of ton- nage baled
	Threshing for seed (80 per cent by seasonal labor)	Aug one-third of crop) Sept one-third of crop) Oct one-third of crop)
Cotton	Chopping	May -50 per cent of
		June - 50 per cent of acreage
	Hoeing	June - 50 per cent of acreage` July - 50 per cent of acreage
	Picking	Sept10 per cent of crop Oct 30 per cent of crop Nov 40 per cent of crop Dec 15 per cent of crop Jan 5 per cent of crop
Flax	(Use of seasonal labor ignored)	inconsequential and hence
Grain (wheat and barley)	Threshing (80 per cent by seasonal labor)	May 50 per cent of crop June - 50 per cent of crop
Sorghums	Cutting off heads by hand and throwing in piles	Oct.— 40 per cent of acre age Nov.—60 per cent of acre age
	Threshing (80 per cent by seasonal labor)	Nov.— 40 per cent of crop Dec.—40 per cent of crop

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Table 2 continued.

Table 2 continued. Crops	Operation	Time of need
Sudan grass for seed		production, hence ignored.)
	(District discontinuing	production, hence ignored.
Vegetable crops: Lettuce	Thinning	Oct170 acres Dec130 acres
	Hoeing	Nov170 acres Feb130 acres
	Cutting (early crop)	Dec. 13-31-2,000 crates Jan. 1-31-10,000 crates
	(late crop)	Mar. 1-25-5,500 crates
Melons, honeydes*	Hoeing and thinning Hoeing Hoeing and turning vines	August—all acreage August—all acreage August—all acreage
	Picking	Oct. 23-31-50 per cent of crop Nov. 1-8-50 per cent of crop
Orchard crops: Pecan nuts	(Use of seasonal labor i	inconsequential, hence ignored.)

^{*} About 200 acres melons have been planted for harvest in June and July, 1936.

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TABLE 3

Seasonal Labor Needs -- Palo Verde Valley -- by Months and Tasks

Available Required number days 25 82 20 workers 25 82 20 days 25 94 man-months 25 94 man-months 25 6 man-months 26 33 (from 15th 31st) 26 23 man-months 26 33 man-months 26 17 26 112 man-months 26 63 26 17 26 151 man-months 26 26 16							
Octon: Picking Sige of tesk Output per man-day man-days deys Or workers					Required	Available	Required number
Oction: Pleking 407,610 pounds 200 pounds 300 of 20 15 (for 20 days Intitude: Cutting 10,000 crates	Month	Crop and task	Size of task	Output per man-day	man-days	days	
Totals Totals A07.610 pounds S. Carates S. Dours S. Do	170 170 180						
Totals	Tannanu		407.610 pounds		2,038	25	
Totals	Common of		10.000 crates	6.3	300 (of	20	(for
Totals				(in 5 hours)	5 hours)		
Lettuce: Hoeing 130 acres 1 acre 130 9 15 (for 9 days 150 acres 1 acre 130 acres 1 acre 130 acres 1 acre 130 acres 130 acr		Totals			2,338	25	
Alfalfa: Baling	To ballo with		130 acres	1 acre	130	6	(for 9
Affalfa: Baling	ו במו משו א				130	25	
Lettuce: Cutting Courses Courses Lettuce: Cutting Courses Course	Monch			tons in	422 of	13	
Totals	mer our				-		
Totals Alfalfa: Baling Alfalfa: Alf		Lattuce: Cutting	5.500 crates	crates		थ्य	(from 1st
Totals				hours	-		25th)
Totals		مارمار			589	26	
Totals Alfalfa: Baling Afalfa: Balin	Annil	Alfalfa: Baling	4.224 tons	tons (in 6	844 (05	56	
Totals Alfalfa: Baling 4,050 acres 2.5 acres 1,620 2.6 33 man-months 3 tons in 6 hours 4,050 acres 2.5 acres 1,620 2.6 33 man-months 4,050 acres 1.5 tons in 12 12 hours 2,897 2.6 17 17 17 18 19 19 19 19 19 19 19	77764			,	بمدر		
Alfalfa: Baling 4,224 tons 3 tons &n 6 hours)* 844 (of 26 33		S S S S S S S S S S S S S S S S S S S			844	26	
Cotton: Chopping (by stationary machine) 4,050 acres 2.5 acres 6 hours)* 26 63 Grain: Threshing (by stationary machine) 811 tons 1.5 tons (in 6 hours)* 2,897 26 17 Totals 4,224 tons 3 tons (in 6 hours)* 844 (of 26 33 26 33 Cotton: Chopping Hoeing Hoeing Grain: Threshing Grain: Threshing Sli tons 4,045 acres (in 6 hours) 2.5 acres (in 6 hours)* 26 33 Totals 2.112 tons 3 tons (in 6 hours)* 26 151 man-months Y alfalfa: Baling 2.112 tons 3 tons (in 6 hours)* 2.6 hours)* 16 hours)*	May	Alfalfa: Baling	4,224 tons	tons in	844 (of	26	33
Cotton: Chopping stationary machine) 4,050 acres 2.5 acres 1,620 26 63 Grain: Threshing (by stationary machine) 811 tons 1.5 tons (in 12) 1.2 hours)* 2.897 26 17 Totals 4,224 tons 3 tons (in 6 hours)* 844 (of 26 33 35 hours)* 26 33 Cotton: Chopping Hoeing Hoeing Hoeing 4,045 acres 2.5 acres 1,011 26 39 26 35 26 3					6 hours)*		
Grain: Threshing (by stationary machine) 811 tons 1.5 tons (in 8 hours)* 452 (of 8 cores)* 1.5 tons (in 8 hours)* 2.897 2.6 17 Alfalfa: Baling 4,224 tons 3 tons (in 6 hours)* 844 (of 26 cores) 2.5 acres 1,620 26 33 Cotton: Chopping 4,045 acres 2.5 acres 1,620 26 53 Hoeing 4,045 acres 1.5 ton (in 12 dons)* 433 (of 26 dons)* 26 33 Grain: Threshing 811 tons 1.5 ton (in 12 dons)* 12 hours)* 26 17 Alfalfa: Baling 2,112 tons 3 tons (in 6 hours)* 6 hours)* 26 16			4,050 acres	2.5 acres	1,620	26	63
Stationary machine 811 tons 1.5 tons (in 12 433 (of 26 17 Totals		Threshing					
Totals Alfalfa: Baling A,224 tons Alfalfa: Baling A,045 acres Cotton: Chopping Hoeing Grain: Threshing Totals Alfalfa: Baling A,1224 tons Alfalfa: Baling A,045 acres Alfalfa: Baling A,045 acres A,04		onary mach			433 (of	26	17
Totals					hours		;
Alfalfa: Baling 4,224 tons 3 tons in 6 hours)* Cotton: Chopping 4,045 acres 2.5 acres 1,620 26 63 Hoeing 4,045 acres 2.5 acres 1,620 26 53 Grain: Threshing 811 tons 1.5 ton(in 12 12 hours)* Totals Alfalfa: Baling 2,112 tons 3 tons(in 6 hours)* Cottons 2.5 acres 1,620 26 53 Hours 3.908 26 151 man-months 16 hours)*		Totals			2,897	26	
Cotton: Chopping 4,045 acres 2.5 acres 2.5 acres 6 hours)* 26 63 Hoeing 4,045 acres 4,045 acres 1,620 26 39 Grain: Threshing 811 tons 1.5 ton (in 12 tons) 435 (of 26 15 man-months 3,908 26 151 man-months 422 (of 26 16 tons) Alfalfa: Baling 2,112 tons 3 tons (in 6 hours)* 6 hours)* 6 hours)*	June	Alfalfa: Baling	4.224 tons	tons an 6		26	33
Cotton: Chopping 4,045 acres 2.5 acres 1,620 26 63 Hoeing 4,045 acres 4 acres 1,011 26 39 Grain: Threshing 811 tons 1.5 ton(in 12 acres) 433 (of 26 acres) 17 Totals 2,112 tons 3 tons (in 6 hours) 422 (of 26 acres) 16 Alfalfa: Baling 2,112 tons 3 tons (in 6 hours) 6 hours)				,	6 hours)*		
Hoeing Hoeing 4,045 acres 1,5 ton (in 12 433 (of 26 39 17 12 tons 12 tons 3 tons (in 6 hours)* Alfalfa: Baling 2,112 tons 3 tons (in 6 hours)* A,045 acres 1,5 ton (in 12 433 (of 26 15 man-months 3,908 26 16 16 16 hours)*		Cotton: Chopping	4.045 acres	2.5 acres	1,620	26	63
Grain: Threshing 811 tons 1.5 ton (in 12 hours)* 433 (of 26 l7 hours)* 26 l51 man-months Totals 2,112 tons 3 tons (in 6 hours)* 6 hours)* 16 hours)*		Hoeing	4,045 acres	4 acres	1,011	56	39
Totals Alfalfa: Baling 2,112 tons Alfalfa: Baling 2,112 tons 3 tons(in 6 hours)* 6 hours)* 6 hours)*		Grain: Threshing	811 tons		433 (of	26	17
Totals Alfalfa: Baling 2,112 tons 3 tons (in 6 hours) 422 (of 26 16 16 16 hours) 6 hours) 9				hours)			
Alfalfa: Baling 2,112 tons 3 tons (in 6 hours) 422 (of 26 16 6 hours)*		Totals				26	
6 hours)*	July	Alfalfa: Baling	2,112 tons	3 tons (in 6 hours)		26	16
)			6 hours)*		

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Table continued	panu			Required	Available	Required number
4 + 50	2000	Size of task	Output mer man-day	man-days	days	-24
Month	Ortop and cash	E C	A sorres	1.012	26	
dinc'	Cotton: noting	2		1.434	26	56 man-months
(cour.a)	Melone (honeydew):					
nengny	Hoeing and thinning	30 acres	1 acre	30	Q2	15 (for 2 days)
	Hoeing	30 acres		30	જ	15 (for 2 days)
	Hoeing and turning		,	D		
	vines	30 acres	4 acres	ထ		8 (for 1 day)
	Alfalfa: Baling	2.112 tons	3 tons (in 6 hours)	422	26	16
	D. 1150			(of 6 hours)*		
	Threshing	118 tons	900 pounds (in 12	211	26	o
	O TITLE			(of 12 hours)*		
	Potals				26	27 man-months
Sentember	Alfalfa: Baling	2,112 tons	3 tons (in 6 hours)	422	26	10
				(of 6 hours)*		
	Threshing	118 tons	900 pounds (in 12		56	6
			hours)	(of 12 hours)*		
	Cotton: Picking	815,220 pounds	250 pounds	3,261	26	126
	Totals			3,894	26	150 man-months
October	Alfalfa: Threshing	118 tons	900 pounds (in 12	211	26	6
			hours)	(of 12 hours)*		
	Cotton: Picking	2,445,660 pounds	250 pounds	9,783	56	377
***	Sorghums: Cutting off					
	heads by hand	1,200 acres	1 acre	1,200	26	47
	Threshing	463 tons	2 tons	185*	26	
	Lettuce: Thinning	170 acres	0.5 acre	340	23	
	Melons: Picking	1,680 crates	45 crates	38	∞	5 (from 23rd to
						31st/
	Totals			11,757	26	452 men-months
November	Cotton: Picking	3,260,880 pounds	225 pounds	14,493	25	280 ←
	Sorghums: Cutting off					
	heads by hand	1,571 acres	1 acre	1,571	25	63
	Threshing	927 tons	2 tons	370*	25	15
	Lettuce: Hoeing, and	20000 041	2500	200	۲.	15 (for 15 days)
	removing golden.	T /O acres	O.13 acre	199	CT	ומ (ומו דם ממלפי)
				(Table co	continued on	next page.)

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Table continued	nued						1
				Required	Available	Available Require' number	
Month	Crop and task	Size of task	Output per man-day man-days	man-days	days	of workers	_
November	Melons: Picking #	1,680 crates	45 crates	38	8	5 from 1st to	
(cont'd)						8th)	_
	Totals		A CONTRACTOR OF THE PERSON OF	16,699	26	642 man-months	-
December	Cotton: Picking	1,222,830 pounds 200 pounds	200 pounds	6,114	25	245	
	Sorghums: Threshing	927 tons	2 tons	370*	25	15	
	Lettuce: Thinning	130 acres	0.5 acre	260	17	15 (for 17 days)	
	Cutting	2,000 crates	33 crates (in 5	09	4	15 (for 4 days)	_
			hours)	(of 5 hours)			_
	Totals			6.804	26	262 man-months	

*Estimated portion of job done by seasonal workers.

+At peak of cotton picking, the maximum output of gins was about 100 bales per day. This would indicate from 625 to 700 pickers.

+Melons seldom picked this late. Experimental in 1935.

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TABLE 4
Summary of Seasonal Labor Needs by Months
Palo Verde Valley

Month	Required man-days of seasonal labor	Available work days	Required man-months of seasonal labor
January	2,338	25	94
February	130	25	6
March	589	26	23
April	844	26	33
May	2,897	26	112
June	3,908	26	151
July	1,434	26	56
August	701	25	27
September	3,894	26	150
October	11,757	26	452
November	16,699	25	642
December .	6,804	25	262
Totals	51,995		2,008

TABLE 4 Summary of Seasonal Labor Needs by Months Palo Verdo Valley

Required man-months	eldaliavA	Required man-days	
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Sca	to the proof of the second of	157,11	October
642	es	26,699	······································
262	88	6,804	December
2,008		81,995	Totals